PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:

G01L 1/24, G01D 5/353

(11) International Publication Number:

WO 00/57148

A1

(43) International Publication Date: 28 September 2000 (28.09.00)

(21) International Application Number:

PCT/GB00/00994

(22) International Filing Date:

17 March 2000 (17.03.00)

(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,

(30) Priority Data:

9906361.2

19 March 1999 (19.03.99)

GB

Published

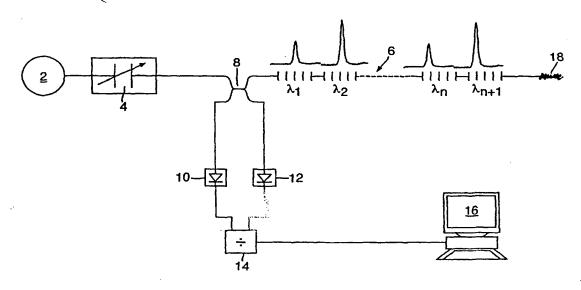
With international search report.

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(54) Title: STRAIN SENSING



(57) Abstract

A strain sensor comprises an optical waveguide (6) having a plurality of reflecting structures (Bragg gratings) along its length. Each structure reflects light at a different characteristic wavelength (λ_1 to λ_{n+1}) which changes in dependence on a change of physical length of at least part of the reflecting structure. The reflectivity of reflecting structures which reflect at characteristic wavelengths which are adjacent to each other (λ_1 and λ_2 or λ_n and λ_{n+1}) are configured to be different such that the intensity of light reflected from adjacent structures can be used to discriminate between them.